U.S. ENVIRONMENTAL PROTECTION AGENCY



REGION X

IDAHO OPERATIONS OFFICE 422 WEST WASHINGTON STREET BOISE, IDAHO 83702

June 5, 1988

MEMORANDUM

SUBJECT: Cyprus Mining Company

ID-002540-2, Compliance Sampling Inspection

FROM:

Dan R. McDonough

Environmental Protection Specialist

TO:

Wally Scarburgh

NPDES Coordinator

On May 25, 1988, I conducted an NPDES compliance sampling inspection at the Cyprus Mining Company, Thompson Creek project. Mr. Bert Doughty, Supervisor Environmental Affairs, accompanied me on the inspection. At the time of the inspection, samples were collected from discharges #001 and #002 for TSS, Total: Arsenic, Cadmium, Copper, and Zinc. All samples were taken to the State Lab in Boise for analyses. Samples for pH were analyzed on site. Based on sample results obtained from the State Lab, the Cyprus Mining Company is meeting current permit requirements.

0224A

	H-0293		of Idaho Health & Welfare	88-5-385
Martin Quality survey Martin Quality Report Mart	COPY DISTRIBUT	BUREAU OF W	ATER QUALITY	LAB NAME (Check One
Composition		uesting les E E E BUREAU OF L		
Possible				
Sampling Point Location Collection Col		as needed CHEWICA	IL REPURI	
Stock		IDAHO OPERATIONS OFFICE		
Date of Collection Yr., Mo., Day 1.5 Date		4	Sampling Point Location	mus Mining Co.
TYPE OF SAMPLES (Check appropriate boxes) PURPOSE OF SAMPLE (Check one) Type OF SAMPLE (Check one) Trend Complaines Survey Trend Tre	Date of Collect	ion (Yr., Mo., Day) 88/45/25	Date Submitted (Yr., Mo., Day)	
Composite Care Ca		(24 Hr. Clock) Circle One DM DBM DVM		
Waterwater Raw P-Final Chlorinated Grab Cross Composite: Begin End Cross Composite: Begin Cross Composite: Cross Composite: Begin Cross Composite: Cross	TYPE (OF SAMPLES (Check appropriate boxes)		
Code	☐ Wastewater	☐ Raw ☐ Final ☐ Chlorinated		
SAMPLE TAKEN FROM (Check one)				E (mg/L)
Spring Creek River Rever Well Lake Lake Lagon STP Mindustrial Drain Residue (1987 Re			(00500) Total Residue	
Lake Lapon STP Perfolustrial Drain PRESERVED_SAMPLES SUBMITTED Cooled, 4º C FriNO3 H2SO4 NaOH Other Store Cooled, 4º C FriNO3 Cooled, 4º C Fri		, , , , , , , , , , , , , , , , , , , ,		C
Gooled, 49 C				
H2SO4				
STORET DEMAND (mg/L) Susp. Sediment Susp. Susp. Sediment Susp. S			(70300) 🗌 Filterable Resid	due
	_ н2304	- Naori - Other		C)
		DEMAND (mg/L)		
COD Low Level	_	BOD ₅ (Est:)	–	
High Level	_			ΓALS (ug/L)
TOC NUTRIENTS (mgl/L)	(00340)	High Level		vod.
NUTRIENTS (mgl/L)	00680)	TOC		
		NUTRIENTS (mgl/L)		
T. Nitrite as N	(00610)	T. Ammonia as N		
T. Nitrate as N	(00615)			
T. Kjeldahl Nitrogen as N	(00620)	T. Nitrate as N		
T. Kjeldahl Nitrogen as N	(00630)	T. NO ₂ + NO ₃ as N	(01049) 🗌 Lead, Dissolved	1
1	(00625)		(01056) Manganese, Dis	solved
Ortho Phosphate as P. (01075)	(00665)	T. Phosphorus as P		
(000671)	(00669)	T. Hydrolyzable Phosphorus as P		
Other Othe	(70507)	Ortho Phosphate as P		
MINERALS (mg/L) Conductance (umhos/cm) TOTAL METALS (Recorded) Conductance (umhos/cm) Conductance (unhos/cm)	(00671)	Dissolved o-Phosphate as P		
Sp. Conductance (umhos/cm)		MINERALS (mg/L)	/ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	
(000410)	(00095)	Sp. Conductance (umhos/cm)	TOTAL METALS (Recove	mble
	(00900)	Hardness as CaCO ₃	(01002) Arsenic, Total	<10
	(00410)	G .	(01022) Boron, Total	
Calcium			(01027) Gadmium, Tota	al
Magnesium (01042)				
			(01034)	tal
Potassium				
Chloride			(010F1) Fill Lord Tatal	<3
Sulphate as SO ₄ (01067) Nickel, Total (01077) Silver, Total (01092) Zinc, Total			(01055) Manganese To	tal
Sulphate as SO ₄ (01067) Nickel, Total (01077) Silver, Total (01092) Zinc, Total			(71900) Mercury, Total	<0.5
Sulpriate as \$04	· · · · · · · · · · · · · · · · · · ·		(01067) Nickel, Total _	
Turbidity (NTU) (00403)	_	7	(01077) C Silver Total	
Turbidity (NTU) (00403)	(00330) L	_	(01092) Zinc, Total	14
Date Completed Date Reported Date Report	(00076) □		()	/
Total Cyanide (mg/L) Date Completed Date Reported	_		()	
RETURN TEST RESULTS TO The All Many Avery No Chemist Remarks: Remarks: JUN 1 6 1988			Date Completed	Date Reported 10 1/6/
Remarks: JUN 1 6 1988 O. R. M9 angle Gress 422 W. Wash.				Date neported
D. R. Mg anough dress 422 W. Wash.	(00110)		Remarks:	JN 1 6 1988
dress 422 W. Wash.	me	RETURN TEST RESULTS TO	-	10 1000
Boisy La State State 83712	D. R. M	9) anoush		
Boisy State Sip Code 83712	iress	an Interde		
Boise Id 83712	711	State Zip Code		
	BOIST	Id. 83712	+	

COPY DISTRIBUT White - Person requ Canary - Lab Pink - Water Qualit Goldenrod - Extra a	BUDEALLOEL	ATER QUALITY ABORATORIES LITY REPORT L REPORT	LAB NAME (Check One) Boise Coeur d'Alene Idaho Falls Lewiston Pocatello Twin Falls
STORET No		Sampling Point Location	rus Mining Co.
NPDES No Date of Collecti	on (Yr., Mo., Day) 88/05/25	Date Submitted (Yr., Mo., Day)	88/05/31
Time of Collect	On Depth (Meters) Ocircle One DM DBM DVM	Submitted By D.R. Mg	
	Short State	PURPOSE OF SAM Intensive Survey Trend	The state of the s
	F SAMPLES (Check appropriate boxes) ☐ Raw	Compliance Other	
☐ Grab ☐	Cross Composite	STORET RESIDU	E (mg/L)
☐ Composite:	Begin End	Code (00500) Total Residue	
	MPLE TAKEN FROM (Check one)	(00530) Non-Filterable	
	Creek ☐ River ☐ Beservoir ☐ Well ☐ Lagoon ☐ STP ☐ Industrial ☐ Drain	Residue (105º (Suspended So	
	ESERVED SAMPLES SUBMITTED		6
Cooled, 4°		(70300) 🗌 Filterable Resid	due
⊔ H25U4	□ NaOH □ Other	(80154) 🗌 Non-Filterable Residue (110º	C)
		(Susp. Sedimer	
STORET Code	DEMAND (mg/L)	/ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	
(00310)	BOD ₅ (Est:)	() Other Residue	TALS (ug/L)
(00335)	COD Low Level	DISSOLVED METALS	1AL3 (ug/L/
(00340)	High Level		ved
(00680)	TOC	(01020) 🗌 Boron, Dissolve	ed
	NUTRIENTS (mgl/L)	(01025) Cadmium, Diss	olved
(00610)	T. Ammonia as N		solved
(00615)	T. Nitrite as N		/ed
(00620)	T. Nitrate as N		d
(00630)	T. NO ₂ + NO ₃ as N T. Kjeldahl Nitrogen as N		solved
(00625)	T. Phosphorus as P		lved
(00669)	T. Hydrolyzable Phosphorus as P	(01065) 🗌 Nickel, Dissolv	ed
(70507)	Ortho Phosphate as P.	(01075) Silver, Dissolve	d
(00671)	Dissolved o-Phosphate as P		
	MINERALS (mg/L)	()	
(00095)	Sp. Conductance (umhos/cm)	TOTAL METALS (Recov	erable)
(00900)	Hardness as CaCO ₃	(01002) Arsenic, Total	<10
(00410)	T. Alkalinity as CaCO ₃	(01022) 🗌 Boron, Total	
(00425)	Bicarbonate Alk. as CaCO ₃		al
(00430)	Carbonate Alk. as CaCO ₃		
(00916)	Calcium	(01034) Chromium, To	
(00927)	Magnesium	(01042) Copper, Total (01045) Iron, Total	
(00929) (00937)	Potassium	(01051) Lead, Total	~ 13
(00940)	Chloride	(01055) Manganese, To	tal
(00951)	Fluoride	(71900) Mercury, Total	<0.5
(00945)	Sulphate as SO ₄	(01067) Nickel, Total _	
(00956)	Silica as SiO ₂	(01077) Silver, Total	27
	MISCELLANEOUS		~/
(00076)	Turbidity (NTU)	()	
(00403)	pH (SU)		1 11
(00720)	Total Cyanide (mg/L)	Date Completed	Date Reported
(00116)	Intensive Survey No.	Chemist JUN 1	6 1988
	RETURN TEST RESULTS TO	Remarks:	
D. A. M.	Danauch		
ddress	Vashinston		
1200			